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High performance flat belts Technical Data RAPPLON®



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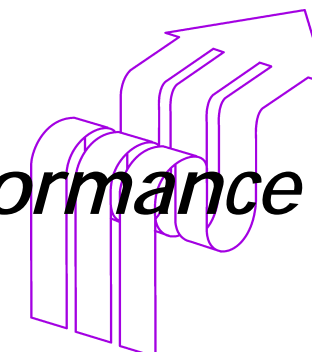
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Article No.	RAPPLON® type	Cover running side	Surface finish running side	Colour running side	Material tension member	Cover back side	Surface finish back side	Colour back side	Belt thickness (approx.) mm	Belt weight (approx.) kg/m ²	Min. pulley diameter at 20 °C	Belt factor at 1 %/*8%/**6% elongation in N/mm	Recommended elongation in %	Thermal application range °C	Antistatic properties	Endless joint	Power transmission	Machine tapes	Paper and printing	Textile belts	Tubewinding
Process belts with low friction at both sides																					
54270	TT 02	Polyamide fabric	Fabric texture	Blue	Polyamide foil	Polyamide fabric	Fabric texture	Blue	1.00	0.85	10	2	2.0 - 3.0	-10 / +80	yes	WS	•	•			
54054	TT 04	Polyamide fabric	Fabric texture	Blue	Polyamide foil	Polyamide fabric	Fabric texture	Blue	1.20	1.15	20	4	2.0 - 3.0	-10 / +80	yes	WS	•	•			
54251	TT 04 AS	Polyamide fabric	Fabric texture	Black	Polyamide foil	Polyamide fabric	Fabric texture	Black	1.20	1.20	20	4	2.0 - 3.0	-10 / +80	yes	WS	•	•			
54601	TT P2	Polyamide fabric	Fabric texture	Black	Polyamide fabric	Polyamide fabric	Fabric texture	Green	1.10	0.95	10	5	1.0 - 2.5	-20 / +60	yes	QS	•	•			
54602	TT P8	Polyamide fabric	Fabric texture	Grey	Polyamide fabric	Polyamide fabric	Fabric texture	Grey	1.80	1.60	25	8	1.5 - 2.5	-20 / +60	yes	QS	•	•			
Process belts with high friction at both sides																					
54264	GG 02 FF	NBR elastomer	Fine structure	Blue	Polyamide foil	NBR elastomer	Fine structure	Blue	1.50	1.65	10	2	2.0 - 3.0	-10 / +80	yes	WS	•	•	•		
54009	GG 02 RE	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	1.10	1.20	10	2	2.0 - 3.0	-10 / +80	yes	WS	•	•	•		
54010	GG 04 RE	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	1.40	1.50	20	4	2.0 - 3.0	-10 / +80	yes	WS	•	•	•		
54273	GG 04/R10	NBR elastomer	Coarse structure	Green	Polyamide foil	NBR elastomer	Coarse structure	Green	3.00	3.10	30	4	2.0 - 3.0	-20 / +100	yes	WS	•	•			
54164	GG 04/R15	NBR elastomer	Coarse structure	Green	Polyamide foil	NBR elastomer	Coarse structure	Green	3.70	4.10	30	4	2.0 - 3.0	-20 / +100	yes	WS	•	•			
54274	GG 06/R10	NBR elastomer	Coarse structure	Green	Polyamide foil	NBR elastomer	Coarse structure	Green	3.00	3.30	30	6	2.0 - 3.0	-20 / +100	yes	WS	•	•			
54145	GG 06/R15	NBR elastomer	Coarse structure	Green	Polyamide foil	NBR elastomer	Coarse structure	Green	4.00	4.40	40	6	2.0 - 3.0	-20 / +100	yes	WS	•	•			
54275	GG 06/R20	NBR elastomer	Coarse structure	Green	Polyamide foil	NBR elastomer	Coarse structure	Green	5.00	5.50	50	6	2.0 - 3.0	-20 / +100	yes	WS	•	•			
54276	GG 06/R25	NBR elastomer	Coarse structure	Green	Polyamide foil	NBR elastomer	Coarse structure	Green	6.00	6.80	60	6	2.0 - 3.0	-20 / +100	yes	WS	•	•			
54133	GG 09/R10	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Fine structure	Blue	3.10	3.50	80	9	2.0 - 3.0	-10 / +80	yes	WS	•	•	•	•	
54419	GG 12/R25	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	6.80	7.60	100	12	2.0 - 3.0	-20 / +100	yes	WS	•	•			
54141	GG 18/R15	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	5.30	6.10	200	18	2.0 - 3.0	-10 / +80	yes	WS	•	•			
54607	GG E5 FF	NBR elastomer	Fine structure	Black	Polyester fabric	NBR elastomer	Fine structure	Green	1.40	1.70	25	5	1.0 - 1.6	-20 / +60	yes	QS	•	•			
Process belts with high friction at process side																					
54261	TG 04 green	Polyamide fabric	Fabric texture	Green	Polyamide foil	NBR elastomer	Coarse structure	Green	1.40	1.40	20	4	2.0 - 3.0	-10 / +80	yes	WS	•	•	•		
54035	TG 40	Polyamide fabric	Fabric texture	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	4.00	4.20	60	6	2.0 - 3.0	-10 / +80	yes	WS	•	•			
54036	TG 60	Polyamide fabric	Fabric texture	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	5.80	6.80	80	9	2.0 - 3.0	-10 / +80	yes	WS	•	•			
54606	PG E5 SF	Thermopl. elastomer	Smooth	Black	Polyester fabric	NBR elastomer	Fine structure	Green	1.20	1.20	20	5	1.0 - 1.6	-20 / +60	yes	QS	•	•			
54603	TU E4 R	Polyurethane	Coarse structure	Black	Polyester fabric	Polyester fabric	Fabric texture	Green	0.80	1.05	15	4	1.5 - 2.5	-10 / +80	yes	QS	•	•			
56420	ETG 12.65 NR red	Polyester fabric	Fabric texture	Brownish	Polyester fabric	Natural rubber	Smooth, ground	Red	6.50	6.80	80	12	0.3 - 1.0	-10 / +70	no	WS	•	•			
57239	ETG 18.20 P5 green	Polyester fabric	Fabric texture	Transparent	Polyester fabric	NBR elastomer	P5 structure	Green	2.00	2.10	60	18	0.2 - 0.6	-20 / +100	yes	WS	•	•			
55145	ETG 10.18 white	Polyester fabric	Fabric texture	Transparent	Polyester fabric	NBR elastomer	Smooth	White	1.80	1.90	60	10	0.2 - 0.6	-20 / +100	no	SS	•	•			
55141	ETG 10.18 P5 white	Polyester fabric	Fabric texture	Transparent	Polyester fabric	NBR elastomer	P5 structure	White	1.80	1.90	60	10	0.2 - 0.6	-20 / +100	no	SS	•	•			
54604	TG P2 R	Polyamide fabric	Fabric texture	Green	Polyamide fabric	NBR elastomer	Coarse structure	Green	1.40	1.40	15	5	1.0 - 2.5	-20 / +60	yes	QS	•	•			
54525	PTG 12	Polyamide fabric	Fabric texture	Black	Polyamide fabric	NBR elastomer	Fine structure	Green	1.20	1.00	25	3	0.2 - 0.6	-20 / +100	yes	WS	•	•			
54265	PTG 20	Polyamide fabric	Fabric texture	Black	Polyamide fabric	NBR elastomer	Coarse structure	Green	2.00	2.00	25	3.8	0.2 - 0.6	-10 / +100	yes	WS	•	•			
54266	PTG 30	Polyamide fabric	Fabric texture	Black	Polyamide fabric	NBR elastomer	Coarse structure	Green	3.00	3.00	50	7	0.2 - 0.6	-10 / +100	yes	WS	•	•			
54267	PTG 40	Polyamide fabric	Fabric texture	Black	Polyamide fabric	NBR elastomer	Coarse structure	Green	4.00	4.30	60	7	0.2 - 0.6	-10 / +100	yes	WS	•	•			
54268	PTG 60	Polyamide fabric	Fabric texture	Black	Polyamide fabric	NBR elastomer	Coarse structure	Green	6.00	6.50	100	7	0.2 - 0.6	-10 / +100	yes	WS	•	•			
Elastic belts																					
54543	UU 8E RS white FDA	Polyurethane	Coarse structure	White	Polyurethane	Polyurethane	Smooth	White	0.80	0.95	knife edge	0.8**	3.0 - 6.0	-30 / +90	no	QS	•	•			
54544	UU 8E RF	Polyurethane	Coarse structure	Black	Polyurethane	Polyurethane	Fine structure	Blue	0.80	0.95	20	0.5**	3.0 - 6.0	-20 / +50	yes	QS	•	•			
54545	UU 10E RF	Polyurethane	Coarse structure	Black	Polyurethane	Polyurethane	Fine structure	Blue	1.10	1.30	20	0.6**	3.0 - 6.0	-20 / +50	yes	QS	•	•			
54262	GG 2E RR	NBR elastomer	Coarse structure	Black	Thermopl. elastomer	NBR elastomer	Coarse structure	Green	1.40	1.40	15	1.1*	4.0 - 8.0	-30 / +60	yes	QS	•	•			
54263	GG 4E RF	NBR elastomer	Coarse structure	Black	Thermopl. elastomer	NBR elastomer	Fine structure	Green	1.40	1.40	15	3*	4.0 - 8.0	-30 / +60	yes	QS	•	•			
54608	GG 6E RF	NBR elastomer	Coarse structure	Black	Thermopl. elastomer	NBR elastomer	Fine structure	Blue	1.70	1.65	15	3.5*	4.0 - 8.0	-30 / +60	yes	QS	•	•			
54547	GV 4E	NBR elastomer	Coarse structure	Black	Thermopl. elastomer	Vlies	Ground quality	Grey	1.20	1.50	15	0.5	1.0 - 1.8	-30 / +60	yes	QS	•	•			

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Drive belts with elastomer cover																					
54001	GT 02	NBR elastomer	Coarse structure	Blue	Polyamide foil	Polyamide fabric	Fabric texture	Blue	1.10	1.10	10	2	2.0 - 3.0	-10 / +80	yes	WS	•	•	•		
54002	GT 04	NBR elastomer	Coarse structure	Blue	Polyamide foil	Polyamide fabric	Fabric texture	Blue	1.30	1.30	20	4	2.0 - 3.0	-10 / +80	yes	WS	•	•	•		
54003	GT 06	NBR elastomer	Coarse structure	Blue	Polyamide foil	Polyamide fabric	Fabric texture	Blue	1.50	1.50	40	6	2.0 - 3.0	-10 / +80	yes	WS	•	•			
54165	GT 06F	NBR elastomer	Fine structure	Blue	Polyamide foil	Polyamide fabric	Fabric texture	Blue	1.60	1.70	40	6	2.0 - 3.0	-10 / +80	yes	WS	•	•	•	•	
54166	GT 09F	NBR elastomer	Fine structure	Blue	Polyamide foil	Polyamide fabric	Fabric texture	Blue	2.00	2.10	60	9	2.0 - 3.0	-10 / +80	yes	WS	•	•		•	
54006	GT 15	NBR elastomer	Coarse structure	Blue	Polyamide foil	Polyamide fabric	Fabric texture	Blue	2.70	2.90	120	15	2.0 - 3.0	-10 / +80	yes	WS	•				
54100	GG 06/R	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	2.00	2.00	40	6	2.0 - 3.0	-10 / +80	yes	WS	•		•		•
54098	GG 09/R	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	2.10	2.40	60	9	2.0 - 3.0	-10 / +80	yes	WS	•		•		
54291	GR 09	NBR elastomer	Longitudinal grooves	Black	Polyamide foil	NBR elastomer	Coarse structure	Green	3.20	3.50	60	9	2.0 - 2.5	-10 / +80	yes	WS	•				
54292	GR 12	NBR elastomer	Longitudinal grooves	Black	Polyamide foil	NBR elastomer	Coarse structure	Green	3.50	4.00	80	12	2.0 - 2.5	-10 / +80	yes	WS	•				
54297	GR 22	NBR elastomer	Longitudinal grooves	Black	Polyamide foil	NBR elastomer	Coarse structure	Green	4.60	5.30	220	22	2.0 - 2.5	-10 / +80	yes	WS	•				
54298	GR 33	NBR elastomer	Longitudinal grooves	Black	Polyamide foil	NBR elastomer	Coarse structure	Green	5.80	6.80	310	33	2.0 - 2.5	-10 / +80	yes	WS	•				
545480	EC-Tape	Mixed fabric	Fabric texture	White	Mixed fabric	NBR elastomer	Smooth	Green	0.55	0.56	10	1.9	1.0 - 3.0	-20 / +100	yes	WS		•		•	
54055	SSB 84	Mixed fabric	Fabric structure	White	Polyamide foil	NBR elastomer	Fine structure	Blue	0.70	0.65	20	2	1.0 - 3.0	-20 / +100	yes	WS		•	•	•	
54253	GG 06.18 RF	NBR elastomer	Coarse structure	Green	Polyamide foil	NBR elastomer	Fine structure	Blue	1.90	2.00	40	6	2.0 - 3.0	-20 / +100	yes	WS	•		•	•	
54254	GG 09.24 RF	NBR elastomer	Coarse structure	Green	Polyamide foil	NBR elastomer	Fine structure	Blue	2.20	2.50	60	9	2.0 - 3.0	-20 / +100	yes	WS	•			•	
54295	GG 11.25 RR	NBR elastomer	Coarse structure	Green	Polyamide foil	NBR elastomer	Coarse structure	Blue	2.50	2.80	60	11	2.0 - 3.0	-20 / +100	yes	WS	•			•	
54256	GG 12.30 RR	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	2.80	3.20	80	12	2.0 - 3.0	-20 / +100	yes	WS	•			•	
54257	GG 15.30 RR	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	3.00	3.50	100	15	2.0 - 3.0	-20 / +100	yes	WS	•			•	
54277	GG 15.40 RR	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	4.00	4.60	100	15	2.0 - 3.0	-20 / +100	yes	WS	•			•	
54258	GG 18.33 RR	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	3.30	3.90	150	18	2.0 - 3.0	-20 / +100	yes	WS	•			•	
54259	GG 18.40 RR	NBR elastomer	Coarse structure	Blue	Polyamide foil	NBR elastomer	Coarse structure	Blue	4.00	4.50	160	18	2.0 - 3.0	-20 / +100	yes	WS	•			•	
Drive belts with leather cover																					
54045	LT 06	Chrome leather	Ground quality	Grey	Polyamide foil	Polyamide fabric	Fabric texture	Black	2.60	2.50	50	6	2.0 - 3.0	-10 / +80	yes	WS	•	•		•	
54046	LT 09	Chrome leather	Ground quality	Grey	Polyamide foil	Polyamide fabric	Fabric texture	Black	2.90	2.80	70	9	2.0 - 3.0	-10 / +80	yes	WS	•			•	
54047	LT 12	Chrome leather	Ground quality	Grey	Polyamide foil	Polyamide fabric	Fabric texture	Black	3.20	3.20	100	12	2.0 - 3.0	-10 / +80	yes	WS	•			•	
54048	LT 15	Chrome leather	Ground quality	Grey	Polyamide foil	Polyamide fabric	Fabric texture	Black	3.60	3.70	150	15	2.0 - 3.0	-10 / +80	yes	WS	•				
54049	LT 18	Chrome leather	Ground quality	Grey	Polyamide foil	Polyamide fabric	Fabric texture	Black	4.30	4.30	200	18	2.0 - 3.0	-10 / +80	yes	WS	•			•	
54050	LT 27	Chrome leather	Ground quality	Grey	Polyamide foil	Polyamide fabric	Fabric texture	Black	5.20	5.60	350	27	2.0 - 3.0	-10 / +80	yes	WS	•				
54051	LT 36	Chrome leather	Ground quality	Grey	Polyamide foil	Polyamide fabric	Fabric texture	Black	6.30	6.60	400	36	2.0 - 3.0	-10 / +80	yes	WS	•				
54038	LL 06	Chrome leather	Ground quality	Grey	Polyamide foil	Chrome leather	Ground quality	Grey	3.80	3.70	70	6	2.0 - 3.0	-10 / +80	yes	WS	•	•	•	•	
54039	LL 09	Chrome leather	Ground quality	Grey	Polyamide foil	Chrome leather	Ground quality	Grey	4.20	3.80	90	9	2.0 - 3.0	-10 / +80	yes	WS	•			•	
54040	LL 12	Chrome leather	Ground quality	Grey	Polyamide foil	Chrome leather	Ground quality	Grey	4.50	4.60	120	12	2.0 - 3.0	-10 / +80	yes	WS	•			•	
54042	LL 18	Chrome leather	Ground quality	Grey	Polyamide foil	Chrome leather	Ground quality	Grey	6.00	6.20	200	18	2.0 - 3.0	-10 / +80	yes	WS	•			•	

>> *The powerful solution to speed up processes* <<

High performance flat belts

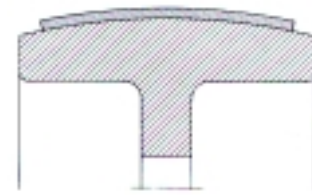


WS = Wedge Skive
QS = Quick Splice
SS = Step Splice

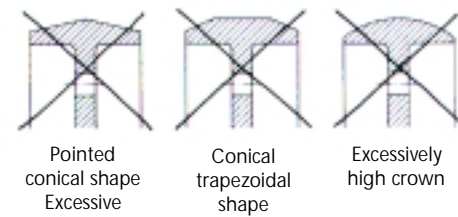
Technical Hints

Belt pulley rim shapes

Basically, pulley rims should be constructed according to valid DIN or ISO standards. In order to achieve optimum frictional behaviour between the flat belts and the pulleys, the surface of the pulleys should be manufactured with a roughness R_z25 according to DIN 4768. Rim shape according to DIN 111 and/ or ISO 100.

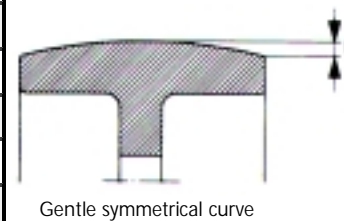


These crown shapes should definitely be avoided as they considerably shorten the working life of a flat belt.



Height „h“ of crowning or camber

Diameter (mm)	Crowning height „h“ according to DIN 111/ISO 100	
	Rim width 25 - 250 (mm)	Rim width > 250 (mm)
40 - 112	0.3	0.3
125 - 140	0.4	0.4
160 - 180	0.5	0.5
200 - 224	0.6	0.6
250 - 335	0.8	0.8
400 - 500	1.0	1.0
560 - 710	1.2	1.2
800 - 1000	1.2	1.5
1120 - 1400	1.5	2.0
1600 - 2000	1.8	2.5



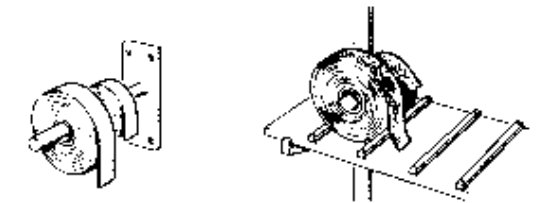
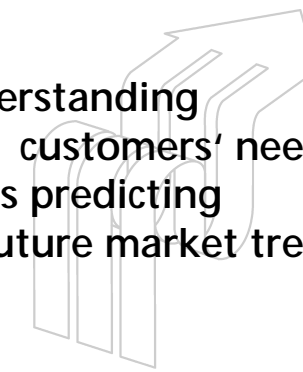
Flanged pulley

Basically, the use of flanged pulleys should be avoided. If it is not possible to avoid the use of flanged pulleys because of design, should be installed or a backing off should be provided. The height of the camber should be according to the crowning table. The use of flanges only for guiding, is not recommended.



Eccentric relief Free-wheeling flanged pulley

»Understanding customers' needs means predicting future market trends«



Directions for storing:

- » The shelf life of belts can be considerably impaired by excessive exposure to e.g. oxygen, ozone, heat, humidity, solvents, UV, etc.
- » Correct storing therefore is of great importance and appropriate handling secures unimpaired quality over long periods.
- » Belts should always be stored at cool, dust free and ventilated conditions.
- » Temperatures should not exceed -10°C or $+25^{\circ}\text{C}$.
- » Non-obeying these temperature limits will reduce belt life.
- » Belts must be stored at a minimum distance of 1 meter from any heater.
- » Optimal relative air-humidity is approx. 65%.
- » Illumination should be moderate. All light sources with UV-radiation cause ozone formation and are reasons for belt damages.
- » We strongly recommend to store RAPPLON® belts in UV-shielding PE-foil until usage.
- » Belts with polyamide foils should neither be stored close to floors nor on belt edges.

Directions for maintenance:

- » Cleaning has to be carried-out very carefully.
- » Do not use any abrasive or sharply edged means.
- » Synthetic coated flat belts (GG, GT, TG, TT etc.) must not be treated with oil, grease or belt dressings. This causes a reduction of the friction value.
- » Flat belts which have become dirty can be washed with warm water, to which a normal, commercial detergent has been added. Do not saturate belts! Only wipe with cloth or sponge, then towel dry.
- » All flat belts with a chrome leather coating (LL, LT) should be treated from time to time with RAPPLON® belt spray. Hardened surfaces have to be roughened before with a wire brush. Note: Only chrome leather belts can be treated with belt spray.

